## EDUCATION

### University

*Master of Science in Software Engineering* *Sep 2023 – Dec 2025*

Algorithms, Design Patterns, Networking & Cloud Computing, Web Design, Object Oriented Design, Computer Science

## TECHNICAL SKILLS

**Languages**: Java, TypeScript, Python, JavaScript, SQL (PostgreSQL, SQLite, MySQL), HTML, CSS
**Cloud**: Google Cloud, Heroku, Docker, Packer, Terraform, Serverless, Salesforce
**Frameworks/Libraries**: React, Node.js, Flask, FastAPI, Tailwind, Express
**Developer Tools**: Git, Linux, Workbench, VS Code, IntelliJ, Google Cloud Console, GitHub Actions
**Testing**: Jest, SuperTest, Apex Testing

## EXPERIENCE

**Developer** Nov 2023 – Dec 2023

- Built a WebSocket based messaging system for delegator-delegatee discussions in crypto governance app.
- Collaborated with domain experts to understand blockchain technology and build real-time messaging features.

**Full Stack Developer** Feb 2023 – Aug 2023

- *Worked on application engineering for shipment tracking application for agents*
- Independently implemented document delivery feature in React and Redux for agents to email clients
- Created a tracking page for 5-9 integration with 10+ custom components, reducing issue resolution time by 38%.
- Wrote wrappers for API endpoints in TypeScript, improving code reusability and error handling
- Collaborated with UI/UX designers, BAs, and developers on design and implementation, focusing on scalability.

**Software Engineer** July 2021 – Feb 2023

- *Worked with for agent-focused policy management and alert system in Salesforce.*
- Designed and implemented a chained Queueable job that moved soft-deleted inactive accounts to Big Objects, reducing storage usage by 43%
- Created a custom multi-table HTML view for managing alerts and notes, boosting task processing speed by 21%.
- Created a Batchable job to merge duplicate accounts into master accounts and optimize sharing logic for agents.
- Integrated Apex tests and SonarQube with GitHub Actions, reducing deployment issues by 33% through continuous integration and code quality maintenance.

## PROJECTS

**VisualObjects** | *Python, Flask, React, Postgres, S3, Docker, Heroku, AWS Lambda* August 2024 – Present
- Built a scalable object detection canvas with Konva, enabling user labeling for undetected objects and implemented CI for seamless updates across Dockerized services.
- Developed a containerized Flask backend on Heroku, using Nginx as reverse proxy and handling CRUD operations for detected and user-labeled objects
- Converted YOLO model to ONNX, reducing image size by 78% and deployed to AWS Lambda for cost-efficient, on-demand inference.

**Quantedge** | *FastAPI, Ollama, React, SQLite, Heroku* Jan 2024 – April 2024
- Transitioned an existing web app into a hybrid model, supporting both fully hosted deployment and a binary version using pyWebView.
- Implemented dynamic trading strategy selection with technical indicators and support for custom strategies.
- Built a financial recommendation system with LangChain, Groq, Gemini, and Ollama, enabling model selection.

**Native Cloud Application** | *Node.js, Google Cloud, Terraform, GitHub Actions* Jan 2024 – April 2024
- Developed a secure, scalable RESTful API with Node.js and Sequelize, implementing multiple endpoints, and tested with Jest and Supertest.
- Worked on Infrastructure Engineering using Terraform, including VPCs, Cloud SQL, load balancers, and managed instance groups, ensuring security with customer-managed encryption keys
- Integrated CI/CD processes, utilizing Google Pub/Sub for event-driven architecture and automated rolling updates for application deployment.